

**7.6.2 Efficiency Standards for Self-Contained Commercial Refrigerators, Freezers, and Refrigerator-Freezers (1)****Models designed for holding temperature applications (2)**

<u>Category</u>	<u>Maximum Daily Energy Consumption (kWh/day)</u>
Refrigerators with Solid Doors	0.10V + 2.04
Refrigerators with Transparent Doors	0.12V + 3.34
Freezers with Solid doors	0.40V + 1.38
Freezers with Transparent Doors	0.75V + 4.10
Refrigerator/Freezers with Solid Doors	the greater of 0.27AV - 0.71 or 0.70

**Models with a self-contained condensing unit and without doors, models with a remote condensing unit, and commercial ice-cream freezers (3)**

<u>Category</u>	<u>Equipment Class Designation</u>	<u>Maximum Daily Energy Consumption (kWh/day)</u>	<u>Key:</u>
Self-Contained Commercial Refrigerators and Commercial Freezers without Doors.	VOP.SC.M	1.74 x TDA + 4.71	<u>Equipment Family:</u> VOP = Vertical Open SVO = Semivertical Open HZO = Horizontal Open VCT = Vertical Closed Transparent HCT = Horizontal Closed Transparent VCS = Vertical Closed Solid HCS = Horizontal Closed Solid SOC = Service Over Counter <u>Condensing Unit Configuration:</u> RC = Remote SC = Self-Contained <u>Rating Temp (Operating Temp) - (Deg. F):</u> M = 38 (≥32) L = 0 (<32) I = -15 (≥-5)
	VOP.SC.L	4.37 x TDA + 11.82	
	SVO.SC.M	1.73 x TDA + 4.59	
	SVO.SC.L	4.34 x TDA + 11.51	
	HZO.SC.M	0.77 x TDA + 5.55	
Commercial Ice-Cream Freezers	HZO.SC.L	1.92 x TDA + 7.08	
	VOP.SC.I	5.55 x TDA + 15.02	
	SVO.SC.I	5.55 x TDA + 14.63	
	HZO.SC.I	2.44 x TDA + 9	
	VCT.SC.I	0.67 x TDA + 3.29	
	HCT.SC.I	0.56 x TDA + 0.43	
	VCS.SC.I	0.38 x V + 0.88	
	HCS.SC.I	0.38 x V + 0.88	
	SOC.SC.I	1.76 x TDA + 0.36	

**Other**

Commercial refrigerators with a self contained condensing unit designed for pull-down temperature applications and transparent doors shall have a daily energy consumption (kWh/day) of not more than 0.126V + 3.51 (2)

Note(s): 1) AV means the adjusted volume (ft<sup>3</sup>). V means the chilled or frozen compartment volume (ft<sup>3</sup>). TDA means the total display area (ft<sup>2</sup>) of the case. 2) Effective for products manufactured on or after January 1, 2010. 3) Effective for products manufactured on or after January 1,

Source(s): Title 10, Code of Federal Regulations, Part 431 - Energy Efficiency Program for Certain Commercial and Industrial Equipment, Subpart C - Commercial Refrigerators, Freezers and Refrigerator-Freezers. January 1, 2010.